

Prediction of optical modulation properties of twisted-nematic liquid-crystal display by improved measurement of Jones matrix

Baiheng Ma,^{1,2} Baoli Yao,^{1,a)} Tong Ye,¹ and Ming Lei³

¹State Key Laboratory of Transient Optics and Photonics, Xi'an Institute of Optics and Precision Mechanics, Chinese Academy of Sciences, Xi'an 710119, China

²Graduate School of the Chinese Academy of Sciences, Beijing 100039, China

³College of Life Science and Shaanxi Key Laboratory of Molecular Biology for Agriculture, Northwest A&F University, Yangling 712100, People's Republic of China

2. Despejar X^2 , Y^2 , Z^2 , y W^2

$$I_1 = X^2 + Y^2,$$

$$I_2 = X^2 + Z^2,$$

$$I_3 = X^2 + W^2.$$

$$X^2 + Y^2 + Z^2 + W^2 = 1$$



$$X^2 = \frac{1}{2} (I_1 + I_2 + I_3 - 1),$$

$$Y^2 = \frac{1}{2} (I_1 - I_2 - I_3 + 1),$$

$$Z^2 = \frac{1}{2} (I_2 - I_1 - I_3 + 1),$$

$$W^2 = \frac{1}{2} (I_3 - I_1 - I_2 + 1).$$

